

SEQUENCE LISTING

<110> Clark, Edwin
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Lu, Karen
Hartmann, Lynn
Brown, Jeffrey L.

<120> NOVEL COMPOSITIONS AND METHODS FOR THE
IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY
OF HUMAN CANCERS

<130> MRI-027

<150> US 60/267,276

<151> 2001-02-08

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 57, 62, 71, 78, 117, 133, 137, 207, 219, 226, 229

<223> n = A,T,C or G

<400> 1

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aggtacaagc tttttttttt tttttttttt tttttttttt tctactgga atcgttnaat 60
gngtctactt nttccacnca taattataaa agaataagaa tcgacaaaaa tttttntttt 120
ccataatatg tanaggnggt tggtttcttt tttttttttt ttcttttctt ttaacttttt 180
tttttttttt tttttttttt gggctcnaaa gggggtagn ggggtncntt aggacctgcc 240
cg 242
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<210> 2

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 338, 349, 388

<223> n = A,T,C or G

<400> 2

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tttatgagaa agcagctatt aaaggtagag tgattcaagt ctataaggca atttatattc 60
tatatttagt ttttcattct gaatagactg aaaaaatata tgaattagaa atttatatta 120
gaccatcttt cttttgttgc tttttttaaa catttacttt tctttaagcc ataaggatgc 180
ataaattata cagggcatga ccttatgagt aacatcaaca ggtatttcag aaataacaga 240
acacgtctag aaatgtatgg tggtaatatt aatctataca ttttttgga tgatttgtac 300
attgacattg tatgaaatga gcacactgag ggtttttngg tggtagtgn gcacccaagg 360
aggttgggga gaactatata agaatgtntt ataactacta ttttaataaa agtaaaa 417
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<210> 3

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3

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cgtgactgag gacagtgaag agagcccacc tgggtgtagag tgctcatttt agctgccaaag 60
aaaagcctaa tttatttttca gggcaaaact tctgcactgg gacaaatgtc ttcattataa 120
tccaaaagca gcatcaggaa aagaagctga actgtgacga tagaaatgaa tggggctgct 180
gctgctgctg ctgcttttctt tttaatcagt agaaatggaa ttctgcctgc caaacagaag 240
tctaggagga acctgcagac ggcccctgta ctgagggcat tttgtcaggg cttaaagcaa 300
ccttcaagat catgacactc tgctatgagg accgaaagaa cttggagata aatatacatg 360
tactatgtgg tgggaccgat tttgaatctg aactaaatta aatgatggaa aacgaccttg 420
ggtgagttca ttcattggctg aacttgctgg gaatgataca acttttcaaa ataatttggt 480
tccttcaaat gacaccaaca cctatagtta ag

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512

<210> 4

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 17, 24, 39, 95, 98, 113, 116, 130, 143, 153, 154, 155,
164, 165, 172, 174, 190, 192, 198, 202, 206, 207, 238, 245,
246, 247, 253, 285, 295, 299, 300, 302, 338

<223> n = A,T,C or G

<400> 4

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nccgttgaac tacgganaac aacncgctgc cttcacagna cctagagtct cctttggagc 60
taccaacctc gccgaaggta cggcgacaca gacngangt gtacaagctt ttntanatgg 120
tgatattcn acaattaaat tcntacgtac tcnngtcca gtcnngagtc cnantgagct 180
gtttgctaan tnatgaantt cnttcnngca cgtgaagggc aaagagaaat aagggccnac 240
ttccnnaag ggnttcctcg cgcatttagg tatcaggctt acttnagtat gtatngccnn 300
cntccgagcg ggagagccaa ggggtgctgta taaaattnaa aggaataaca taaaaa 356

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<210> 5

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 53, 58, 59, 143, 173, 197, 242, 303, 432, 491, 504, 514, 537

<223> n = A,T,C or G

<400> 5

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gtcgaccccc cgtccgctta gggaactgca atattataag tatagtaatg acngcagnng 60
agaaccataa tgatggcctc cccggcaaag aagaaccaac cgtgtttacg cctgaggttg 120
caattttttg aatttttgca gtnagaccct ggcatgacc ttgagcagta ggngataaat 180
tccacatgct tagcgtncca gtaatggaac actaggcata aatgggttat taaagtatcc 240
anaattaaca tgcttagctg tgacattgga aaggcaatgt gtttgctgtg gcacacatac 300
tantaaataa tgactggtcc gaatttggtt ttctgtttgtc tattaagtc aatttactaa 360
ggcaggagg gccagagct gtgctgtcca gttcaatagc catgcgtgac tgctaaggac 420
ttccaaagtg gntagtccaa tgtcaggat gctgcaagt tcaaacacac actggatttc 480
aaagactaaa nccaaaaaaa tgtnaaatca tctnaatatt ttggttatac tcggttnaag 540
aaaataaaat tattttttgcc ttttatgttt ttaaaaag

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577

<210> 6

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3

<223> n = A,T,C or G

<400> 6

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ggncaccaca ctctacaaag gcagtcaact acatgacaca ttccgcttct gcctgggtcac 60
caacttgacg atggactccg tgttggtcac tgtcaaggca ttgttctcct ccaatttgga 120
ccccagcctg gtggagcaag tctttctaga taagaccctg aatgcctcat tccattggct 180
gggctccacc taccagttgg tggacatcca tgtgacagaa atggagtcac cagtttatca 240
accaacaagc agctccagca cccagcactt ctacctgaat ttcaccatca ccaacctacc 300
atattccag gacaaagccc agccaggcac c

```

<210> 7

<211> 446

<212> DNA

<213> Homo sapiens

<400> 7

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ccctcgcgggt ggcggggcgag gtgcatcacc ctgctgaggg acatccagga caaggtcacc 60
acactctaca aaggcagtc actacatgac acattccgct tctgcctggc caccaacttg 120
acgatggact ccgtgttggc cactgtcaag gcattgttct cctccaattt ggaccccagc 180
ctgggtggagc aagtctttct agataagacc ctgaatgcct cattccattg gctgggctcc 240
acctaccagt tgggtggacat ccattgtgaca gaaatggagt catcagttta tcaaccaaca 300
agcagctcca gcaccagca cttctacctg aatttcacca tcaccaacct accatattcc 360
caggacaaag cccagccagg caccaccaat taccagagga acaaaaggaa tattgaggat 420
gcgctcaacc aactcttcga aacagc

```

<210> 8

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 497

<223> n = A,T,C or G

<400> 8

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tacttagggc gaattggagc tccccgcgggt ggcggccgag gtacgcggga gataagaccc 60
tgaatgctc attccattgg ctgggctcca cctaccagtt ggtggacatc catgtgacag 120
aaatggagtc atcagtttat caaccaacaa gcagctccag caccagcac ttctacctga 180
atttcacct caccaacct ccatattccg gggacaaagc ccagccaggc accaccaatt 240
accagaggaa caaaagggaat attgaggatg cgctcaacca actcttcga aacagcagca 300
tcaagagtta tttttctgac tgtcaagttt caacattcag gtctgtcccc aacaggcacc 360
acaccggggt ggactccctg tgtaacttct cgccactggc tcggagagta gacagagttg 420
ccatctatga ggaatttctg cggatgacct ggaatgggta cctgcccggt ccggccgctt 480
cggctttaga actagtn

```

<210> 9

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27

<223> n = A,T,C or G

<400> 9

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atagggcgaa ttggagctcc ccgcggnggc ggccgaggta ccattccggg tcatccgcag 60
aaattcctca tagatggcaa ctctgtctac tctccgagcc agtggcgaga agttacacag 120
ggagtccacc ccggtgtggt gcctgttggg gacagacctg aatgttgaaa cttgacagtc 180

```

agaaaaataa ctcttgatgc tgctgtttcg gaagagttgg ttgagcgcat cctcaatatt 240
ccttttggtc ctctggtaat tgggtgggtgcc tggctgggct ttgtcctggg aatatggtag 300
gttggtgatg gtgaaattca ggtagaagtg ctgggtgctg gagctgcttg ttggttgata 360
aactgatgac tccatttctg tcacatggat gtccaccaac tggtaggtgg agcccagcca 420
atgggaatga ggcattcagg gtcttatcta gaaagacttg ctccaccagg ctggggtcca 480
aattggag 488

<210> 10

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10

ccgcgggtggc ggccgcccgg gcaggtacat caccctgctg agggacatcc aggacaaggt 60
caccacactc tacaaaggca gtcaactaca tgacacattc cgcttctgcc tggtcaccaa 120
cttgacgatg gactccgtgt cggtcactgt caaggcattg ttctcctcca atttggaccc 180
cagcctgggtg gagcaagtct ttctagataa gaccctgaat gcctcattcc attggctggg 240
ctccacctac cagttgggtg acatccatgt ggcagaaatg gagtcacag ttatcaacc 300
aacaagcagc tccagcacc agcacttcta cctgaatttc accatcacca acctaccata 360
ttcccaggac aaagcccagc caggcaccac caattaccag aggaacaaaa ggaatattga 420
ggatgcgctc aaccaactct tccgaaacag cagcatcaag agt 463

<210> 11

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 52, 53

<223> n = A,T,C or G

<400> 11

accgcngtgg cggccgcccgg gcaggtacat tcaccctgct gagggacttt tnnngacaag 60
gtcaccacac tctacaaagg cagtcaacta catgacacat tccgcttctg cctgggtcacc 120
aacttgacga tggactccgt gttgggtcact gtcaaggcat tgttctcctc caatttggac 180
cccagcctgg tggagcaagt ctttctagat aagaccctga atgcctcatt ccattggctg 240
ggctccacct accagttggt ggacatccat gtgacagaaa tggagtcac cagttttatca 300
ac 302

<210> 12

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 18, 463, 474, 518

<223> n = A,T,C or G

<400> 12

agggcggaatt ggagctcncc gcggtggcgg ccgaggtacc acctgaaggc cctcacactc 60
aacttcacca tctccaatct ccagtattca ccagatatgg gcaagggtc agctacattc 120
aactccaccg aggggggtcct tcagcacctg ctacagacct tgttccagaa gagcagcatg 180
ggcccccctt acttgggttg ccaactgatc tcctcaggc ctgagaagga tggggcagcc 240
actggtgtgg acaccacctg cacctaccac cctgaccctg tgggccccgg gctggacata 300
cagcagcttt actgggagct gagtcagctg acccatgggt gtcacccaac tgggcttcta 360
ttgtcctgga cagggatagc ctcttcatca atggctatgc accccaaaat ttatcaatcc 420
ggggggcgagg tacctgcccc gggcgggccg cttaaaacta gnggggatcc ccnnggcttg 480
caggaatttc gatattcaag cttatcgata cccgtccnac cttcgagggg gggg 534

<210> 13
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 16, 39, 41, 71, 106, 129, 137, 140, 149, 164, 167, 226,
245, 251, 263, 268
<223> n = A,T,C or G

<400> 13
tgggggaaag ggagnnccca acgatacctgg aactttaant ntggaaagag tgagattcag 60
aaatcgccac nactggactt taaggagcgt cctgtgtcag cacaanggac tggcacacac 120
agacacacna gaccgangan aaactgcana caaatggaga tacnaanact tagaaggaca 180
gctcctttca cctcatccta cttgtccaga aggtaaaaag acacanccag aaagaaaagg 240
catcngctca nctctcagat cangacangc tgtggatctg tggcgggtact 290

<210> 14
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 93, 315, 407
<223> n = A,T,C or G

<400> 14
gcgtccgaat ttcctgggta ccccgatat aagaaaatgt taaagtcagg caggaaaact 60
atagaattaa agccttatag tatattatat agnaaaagccc tatatagtat agacagaaaa 120
gtttagggaa ggcccacaaat tgcaaagaaa agtgggtggc acggaacaag ggaatgtcat 180
acaaatgtgg acacacactg cgttactgag cgccacgtct cataggtgag aagcataact 240
ctagaagggtg agaaatgaga attttcactt ccataccttc atttggttggt tgactctgcc 300
atttactttc ctttnttttg tattttcatt ttccctttta aaatggaaat atgaattttg 360
aatttctgct ctatctcaca ggttttttgt ggggatgcat ttaaaangtt taattagtaa 420
ataatgggtat 430

<210> 15
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39, 242, 363, 393, 404, 406, 412
<223> n = A,T,C or G

<400> 15
ccaaactatt tggacagaat ggcttcaaaa gctagggcna aatgttcaca ttataaaaaag 60
ttaaataatta ccttcaatac ctgtcagtag cctactgaca aattatgact aaacaaaagg 120
atttgtatga ctatgtaata gatcatccgc tgaaaagtaa aacaaaataa caaaaaaact 180
tgtcctaata ggaaagcatg cttaataaaa ggaaatgcac gaagttataa acatgttttg 240
tnagtaagta ttcagaatta aaattatgtg atacattttt atgattgctt aatgatcctt 300
ggatgtcaga ttccctgggt ctatttatag cttaaattata atgaaaaatt caaggcttgc 360
tgnagcaact ctgtcaacaa atatattagt ttngcttata tatntngatt cnttatgtgg 420
gaaaaattac tacc 435

<210> 16
<211> 493
<212> DNA

<213> Homo sapiens

<400> 16

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cggccggccc ggggggatgcc gagtcccaag aggcgcgagtt tgagaggctg gtggcagaat 60
tcccggagaa ggaggcccag ctgtccctgg tgggaagcgca gggctggctg gtgatggaga 120
agtcttctcc ggagggtgct gccgtggtgc aggaggagct caggagagctg gcagagtcgt 180
ggcggggcctt gaggctgctg gaagaaagtc tgctgagcct catcagaaac tggcatctgc 240
agaggatgga agtggattcg gggaagaaaa tggttttcac caacaacatc ccaaagtcag 300
gattttctcat caatcccatg gatactatto ccaggcatcg tcgacgcgtg agtctgtcta 360
gcagggctgt gggagaaggg gccaggcccc aggtcaagag gtgggtaggg gtctccagca 420
caggccccctc cctgtctggg gcaacatgct ctgctctgag gacttggcca cgtctgtct 480
catttgagcc tgc 493
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<210> 17

<211> 315

<212> DNA

<213> Homo sapiens

<400> 17

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gaaataaagt taggagcagc aggaggaggc tctgtgtggg cacatctcct tcaggggcat 120
ggtactgttc atggacagag gaagtcctat ggcatatgct gggacagaca gtgaagggtta 180
ggtcttataa agaggcttta cgtttagagta taataatcac ttatctgtat gcattctatga 240
atgatctcac cggatgtgaa gaatatgtat ttttaaaaaac agcatgaaac ggcctgtaat 300
cccagtactt ttggg 315
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<210> 18

<211> 339

<212> DNA

<213> Homo sapiens

<400> 18

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acttattgaa tcattgaatt cattgaagtt tggctccaac ctatcatatc gccgatgttt 60
actttttcct attcttcata aagttctaaa ttcagaatgt gaggtggaca aattcatttc 120
agttccacaa gtggttagcat ttaaatatca gcagcttaag tattcaaaat taatagattg 180
catttttaaa atggtgaaat tctgacagtt tgcagggaaa aggtgctgaa tatcttgata 240
taattttacat acttctataa acaggcattt ttataccttt ggaaagataa atgagtagaa 300
accaagtatt ttacaattct aatagttata ctgacatgt 339
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<210> 19

<211> 520

<212> DNA

<213> Homo sapiens

<400> 19

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tccgctaaaa atttgttcgg gcctttggct taattcagag atctgcccat ggggttctat 60
tactttgttc ttttaacttg ttogatcctt cttggatcag tcttgcaatt cattcttgct 120
ttttcctgaa taacatctat gttttgccct cttttgagtg ctatcttaat atgccagcct 180
atttctacct ttcttggtgca gggtagcata atttttactt tccattatac ctcagtccca 240
caccttggtt tctgtttatt tcaataccta agatacttat cctcagttcc tagcttactt 300
tagttctgaa agttggatat ccataattgt agtggcttta aatctgtaaa acacatatgg 360
atgggaaacc actgaataat gtaaataaat atgaataacg atgataaaat aaaaatgata 420
aaaataactg agttcaatga tattaaaaac ataagtcagt ttaactattt tttttttgag 480
acaggggctc tgtcaccaag gctagagctg cagtgaagtca 520
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